



## High Performance Oil Storage Tank Cleaning



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# About NuGenTec

NuGenTec is an oilfield chemicals company specializing in environmentally friendly customized chemical solutions to increase oil and gas production, restore flow efficiency to pipelines, clean-out and recover oil from sludge in tanks, and improve overall efficiencies in the field.

## NuFlo™ Oil Storage Tank Cleaning

NuGenTec's NuFlo™ oil storage tank cleaning products are a proprietary line of environmentally friendly oilfield chemicals designed to dissolve hydrocarbon sludge and convert it to marketable oil. The chemical process converts sludge in tanks (no manned entry) into three distinct layers of oil, water and sand (or other residual solids). These products are non-flammable, non-corrosive, and environmentally friendly, shipping as a non-regulated material.

NuGenTec's NuFlo™ oil storage tank cleaning process typically recovers marketable oil with a value exceeding the cost of treatment.

## The NuGenTec Difference

NuGenTec's proprietary tank cleaning solution incorporates a four-stage process:

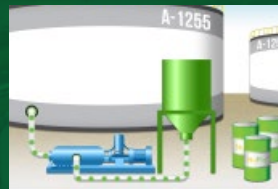
- 1. Sample Acquisition and Analysis:** Sludge samples are acquired from the tank and analyzed in NuGenTec's laboratory using proprietary methodology and testing procedures.
- 2. Chemical Formulation:** After laboratory results have been reviewed and assessed, NuGenTec's team conducts a series of laboratory tests to determine the optimal chemical formulation for treatment.
- 3. Custom Tank Application:** NuGenTec's team of engineers and health and safety specialists analyze the technical specifications of the tank and coordinate a bespoke solution for the client.
- 4. Preventative Maintenance Plan and Knowledge Transfer:** NuGenTec works with the client to set up a going forward maintenance plan to minimize future sludge build-up, prevent tank failures and lower maintenance costs. This knowledge transfer may involve the set-up of a local laboratory and testing facility.

NuGenTec's NuFlo™ proprietary well tank cleaning procedure can reduce down-time in the Cleaning, Testing, & Inspection process to as little as 1 week returning tanks to their rated capacity, extending asset life and recovering oil from sludge.

## Paraffin and Asphaltene Sludge Treatment Process – Oil Storage Tanks



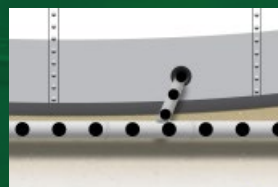
**1** Sludge builds on tank bottom resulting in lost storage capacity and other costly problems.



**2** NuFlo™ is injected into the tank and circulated with cutter stock or lease oil.



**3** Sludge is liquefied and converted in to refinery quality oil.



**4** After the NuFlo™ has liquefied the tank sludge it can be easily pumped out and separated into saleable crude, water and sand/sediment.

## Benefits – Oil Storage Tank Cleaning

- The process can usually be completed in less than one week, and the tank does not necessarily need to be taken off-line.
- The paraffin and asphaltene sludge is recovered as usable oil – a huge value recovered.
- Labor costs are reduced and sludge transport and disposal costs are eliminated.
- No “in-tank” hazards to employees.
- No adverse impact on environment.
- Our solution yields positive net cash flow as the market value of the recovered sludge converted to refinable oil usually exceeds the cost of the treatment.

### Compare Conventional Methods to NuGenTec’s Superior Chemical Solution

Requirements	Requirements Description	Conventional Methods	NuGenTec NuFlo™ Solution
Recovery of sludge	The amount of sludge that is recovered and sold as oil in the cleaning process	Low	High
Setup and mobilization	Scaffolding, cranes, cleaning equipment, air systems, high pressure equipment	High	Low
Outside contractor cleaning costs	Sub-contracted costs of tank cleaning specialists	High	Low
Lost production/margin	Shut-down time resulting in the loss of capacity while the tank is out of service	4-10 weeks	One week but available if needed
Utility and operating costs	Consumption of steam and electricity, caused from the actual cleaning process	High	very low
Chemical	The chemicals used for treatment	Low	Medium
Re-processing/recovery costs	Cleaned-out sludge which requires reprocessing	High	Low
Personnel costs	Additional operations and maintenance manpower, safety/work permitting	High	Low
Waste disposal	Processing of waste and disposal of hazardous waste products	high	Low
Damage to tank equipment	Repair of damages to the tank from cleaning, such as coating and steam coils	Happens occasionally	None
Legislation and regulations	Penalties and fines related to violation of environmental, health and safety regulations	Happens occasionally	None
Personnel liability	Injuries and illness resulting from hazardous working environment and exposure to toxic substances	Happens occasionally	None

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